

## Method of growing thin film electroluminescent structures

## Method of growing thin film electroluminescent structures

Patent Number: ☐ US6248605

Publication date: 2001-06-19

Inventor(s): GLANZ MARIO (DE); SCHUMANN HERBERT (DE); KERVINEN TOMI (FI); SOININEN ERKKI (FI); VASAMA KIRSI (FI); H AUML RKOENEN GITTE (FI); TOERNQVIST RUNAR (FI)

Applicant(s): PLANAR SYSTEMS INC (US)

Requested Patent: ☐ JP2000087029

Application Number: US19990323821 19990602

Priority Number(s): FI19980001262 19980603

IPC Classification: H01L21/00; B05D5/06; H01J1/62

EC Classification: C09K11/463B3, C30B25/02

EC Classification: C09K11/463B3; C30B25/02+29/46

Equivalents: ☐ DE19925430, ☐ FI105313B, FI981262

### Abstract

The present invention concerns a method of growing a cerium-doped SrS phosphor layer by the Atomic Layer Epitaxy-method. According to the invention an organometallic cerium compound containing at least one cyclopentadienyl type ligand is used as a precursor for the dopant cerium. The cyclopentadienyl type cerium compounds can be used as ALE precursors at about 400 C. substrate temperatures without any observable thermal decomposition during processing